

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	18 October 2022
Team ID	PNT2022TMID38800
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Designing IoT kit	USN-1	Setting up the IoT device	2	High	Prabagar S, Nithish P, Mohamed Yasin A
	Getting Coordinates	USN-2	Adding GPS in it and getting Latitude and Longitude	1	High	Prabagar S, Johnson A, Priyash R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Watson IoT Platform	USN-1	Connect the device with Watson Platform	2	High	Prabagar S, Johnson A
	NodeRed	USN-2	Write the flow for IoT using Node Red	2	High	Prabagar S, Priyash R, Mohamed Yasin A
	IBM cloud	USN-3	Store Location in IBM cloud	2	Medium	Prabagar S, Johnson A, Priyash R
Sprint-3	Register/Login	USN-1	Creating a web UI	1	High	Prabagar S, Nithish P, Mohamed Yasin A
	Dashboard	USN-2	Prepare a dashboard to see the current Location	2	High	Prabagar S, Johnson A, Nithish P
Sprint-4	Geofence	USN-1	Create an option to make a geofence	2	High	Prabagar S, Nithish P, Priyash R
	Send Notification	USN-2	Send notification to the user	2	High	Prabagar S, Priyash R

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$